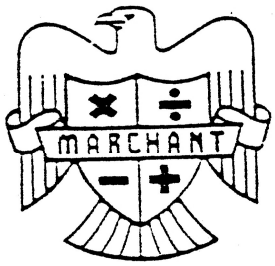
MARCHANT



BACKWARD SHIFT

SERVICE INSTRUCTION BOOK

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BACKWARD SHIFT

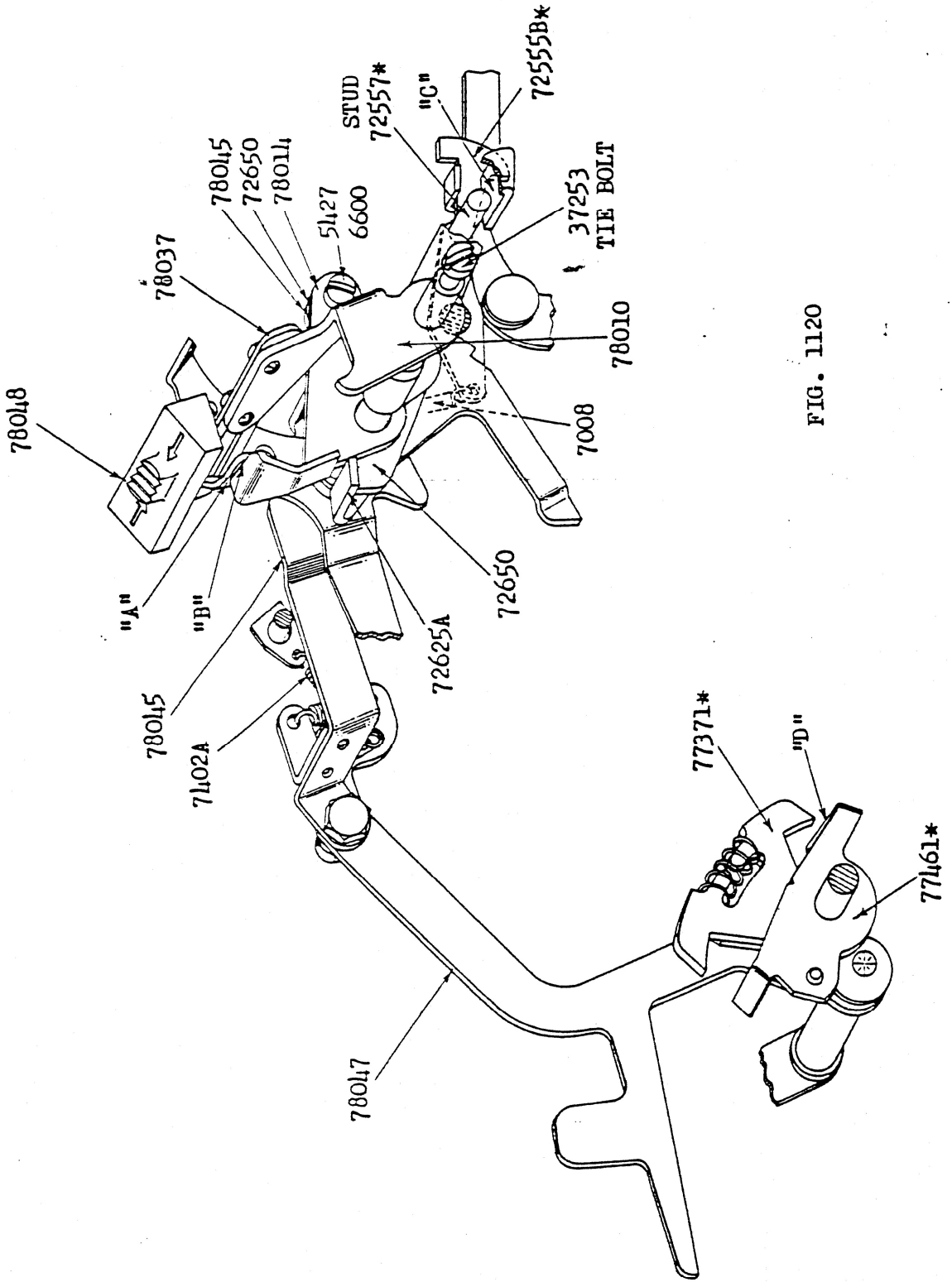

FIG. 1120

BACKWARD SHIFT

When Direction Control Slide, 78037, is to the left the automatic shift after multiplication will be to the left and shifts initiated by the Master Tab. Key will be to the right.

When the Slide is to the right automatic shifts will be to the right and shifts initiated by the Master Tab. Key will be to the left.

1. As the Direction Control Slide, 78037, (Fig. 1120) is moved to the left, camming surface "A" rocks Shift Direction Control Follower, 78014, counter-clockwise thru surface "B". Follower surface "B" is held against camming surface "A" by spring 7402A, on 78045. As 78014 is rocked, 72650 which is attached to it by screw 5427, is also rocked counter-clockwise. Stud 72557* is held against ear "C" by spring 7008.

2. When the Shift Direction Control Follower, 78014, is rocked counter-clockwise, Tee Positioning Lever-Upper, 78045, and Tee Positioning Lever, 78047, which are attached to 78014 are also rocked counter-clockwise and Tee Member, 77371* is rocked to the rear over ear "D" of 77461*for a right Tabulator shift.

When 72650 is rocked counter-clockwise ear "C" lifts interponent 72555B* thru stud 72557* into position for a left shift. (See page 613, paragraph 2).

BACKWARD SHIFT

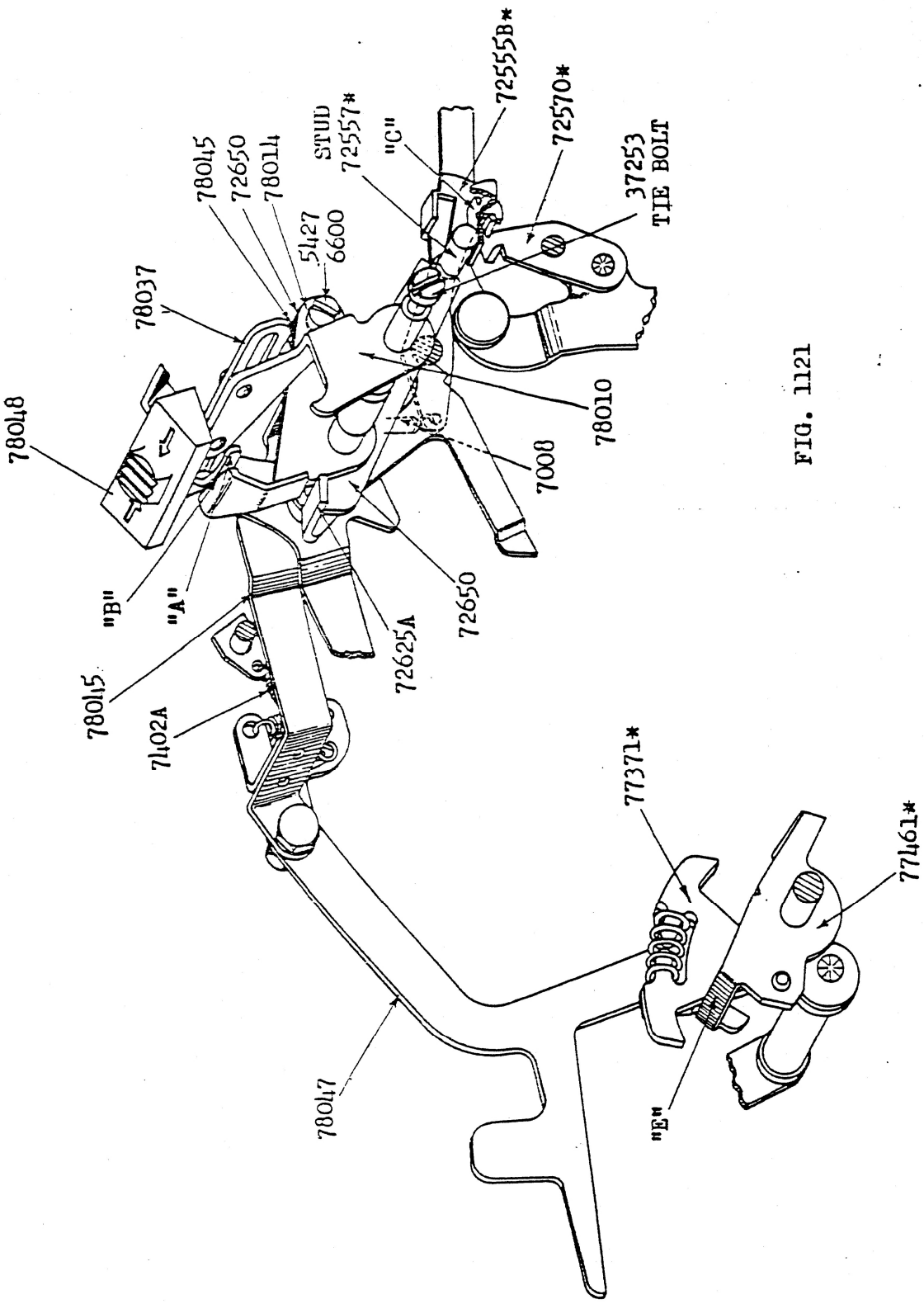

FIG. 1121

BACKWARD SHIFT

3. When the Direction Control Slide. 78037, is moved to the right (Fig. 1121) the Direction Control follower, 78014, is rocked clockwise by spring 7402A on 78045 which holds surface "B" on 78014 against surface "A" of 78037. As Follower 78014 is rocked 72650 is also rocked clockwise lowering 72555B*, under tension of spring 7008, to engage ear of 72570* in preparation for a right automatic shift after multiplication.

4. The clockwise movement of 78014 also rocks Tee Positioning Members, 78045 and 78047, clockwise positioning Tee Member 77371* forward over ear "E" of 77461* for a left Tabulator shift.

5. During Division a left shift is required and a right shift is required for the Automatic Clear and Return Mechansim regardless of the position of the Direction Control Slide. Therefore 72625A and 78035 are provided, the operation of which is the same as described under Normal Left Shift (pages 853-855, paragraphs 4 - 7.)